Title: METHOD FOR DETERMINING ATTITUDE OF AN OBJECT Attorney Docket No.: 7784-000389; Boeing Ref. No.: 01-312 (010011) Serial No. 10/006,010; Filed: 12/04/01; Inventor: Thomas P. Weismuller Mark D. Elchuk – Harness, Dickey & Pierce, P.L.C. (248-641-1600) REPLACEMENT SHEET





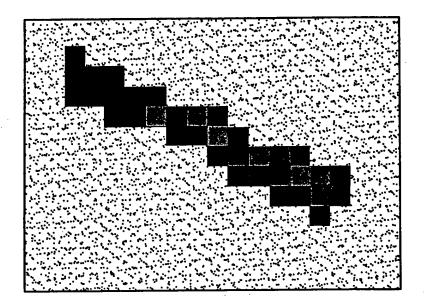


Fig-1

For Binary Comparis	on:
---------------------	-----

Read number of detections in library image (  $N_{library}$  )

Set the intensity of all above - zero pixels to a value of one

## For Full Intensity Comparison:

Read number of detections in library image (  $N_{library}$  )

Determine average pixel intensity of above - threshold pixels ( I library )

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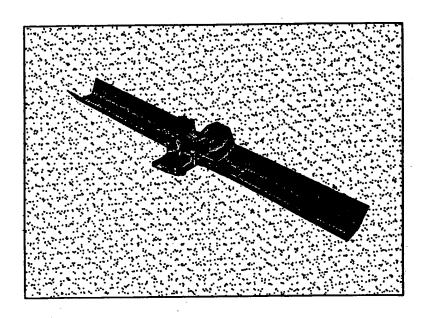


Fig-3

For Binary Comparison	•
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Determine number of detections of object image (  $N_{object}$  )

Offset origin of object image (( $\overline{X}_{object}$ ,  $\overline{Y}_{object}$ )) to upper left corner = (0, 0)

## For Full Intensity Comparison:

Read number of detections of object image ( N  $_{
m library}$  )

Offset origin of object image (( $\overline{X}_{object}$ ,  $\overline{Y}_{object}$ )) to upper left corner = (0,0)

Determine average pixel intensity of above - threshold pixels (  $I_{object}$  )

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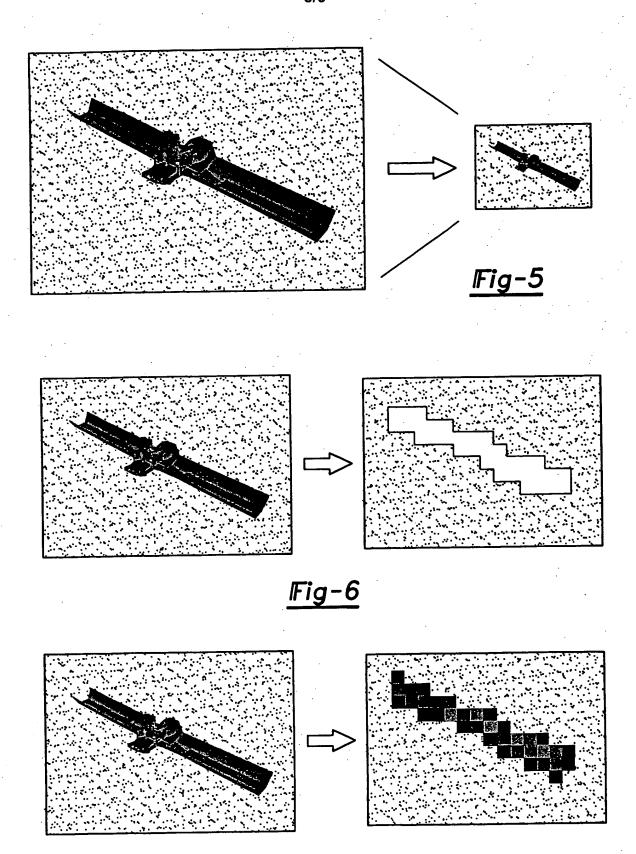


Fig-7

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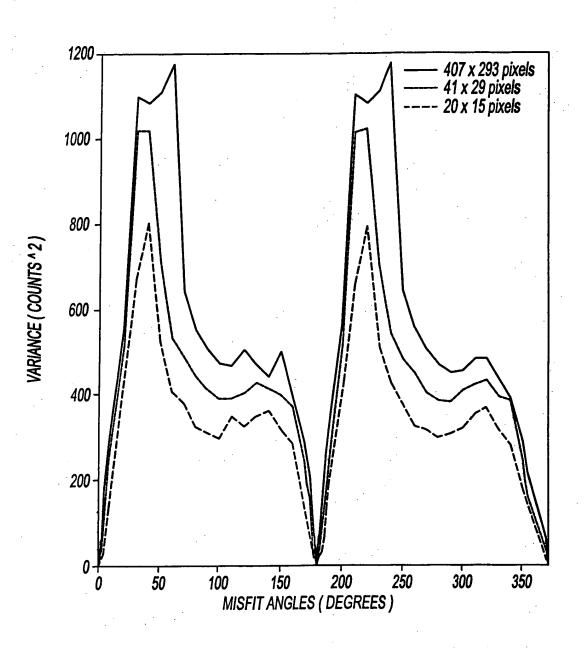


Fig-8A



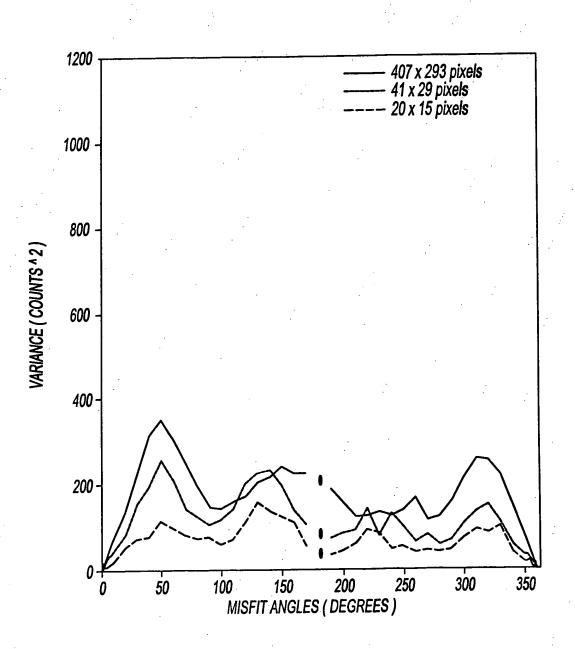


Fig-8B



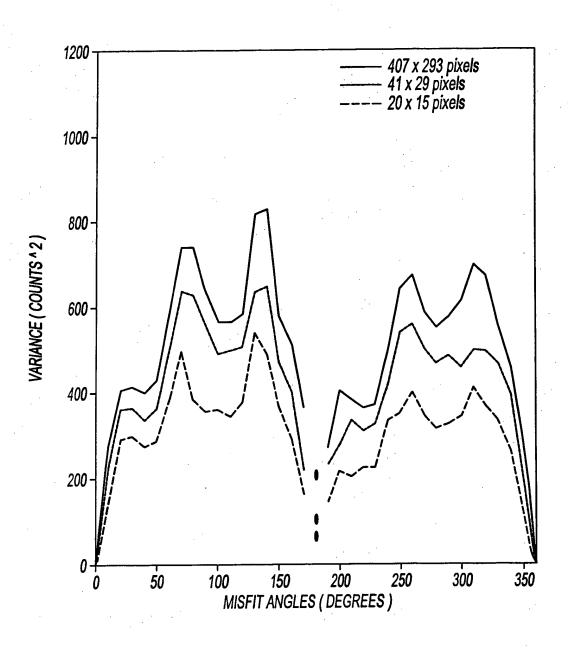


Fig-8C